

0037

WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

October 23, 2007

TO: Internal File

THRU: Pamela Grubaugh-Littig, Permit Supervisor *pgl*

FROM: James D. Smith, Environmental Scientist *JS 10/30/07*

RE: 2007 Second Quarter Water Monitoring, CO-OP Mining Company, Bear Canyon Mine, C/015/0025

The monitoring plan is described on pages 7-48 through 7-60A of the MRP. It includes Tables 7-12 through 7-17.

1. **Were data submitted for all of the MRP required sites?**

In-mine

YES ☒ NO ☐

SBC-11 has not been not accessible since early January 2003 because of a roof fall in the Hiawatha workings of Mine #1. SBC-9A replaced SBC-11 for monitoring water in this section of the #1 Mine; however, additional roof falls made Mine #1, including SBC-9A, inaccessible. The pipe that carries the water out of the mine to the culinary water supply is now the location for water quality and quantity monitoring, and SBC-9A has been retained as the name for this sampling site.

Springs

YES ☒ NO ☐

Streams

YES ☒ NO ☐

UPDES

YES ☒ NO ☐

UTG040006-004 was sampled on June 13, 2007; no other UPDES discharges were reported.

DMR parameters that are not included in the operational parameter lists in the MRP - such as sanitary wastes, visible foam, and floating solids - are not reported in the electronic submittal to the Division. Operational monitoring values are reported for UPDES flow, TDS, TSS, pH, and total iron.

Wells YES ☒ NO ☐

2. Were all required parameters reported for each site?

In-mine YES ☒ NO ☐

Springs YES ☒ NO ☐

Streams YES ☒ NO ☐

UPDES YES ☒ NO ☐

UTG040006-004 was sampled on June 13, 2007; no other UPDES discharges were reported.

Wells YES ☒ NO ☐

3. Were any irregularities found in the data?

Listed parameters were outside two standard deviations. An asterisk (*) indicates the parameter is not required.

In-mine YES ☐ NO ☒

Springs YES ☒ NO ☐

SBC-3 May: Ca, K, Na, Cl, total alkalinity*, total hardness, TDS, total cations*, total anions*. (SBC-3 is monitored as a spring, although it is really a shallow well);

SBC-16: field electric conductivity and flow;

SBC-18: Ca, Mg, and lab electric conductivity;

FBC-12: cation-anion percent difference.

Streams YES ☒ NO ☐

CK-1 May and July (for June): Na
CK-2 May: Ca, Mg, K, SO4, and TDS
CK-2 July (for June): Ca, K, and TDS
FC-2 May: flow

UPDES

YES ☐ NO ☒

Wells

YES ☐ NO ☒

4. On what date does the MRP require a five-year resampling of baseline water data.

Baseline parameters are to be taken in August of year 5 prior to each permit renewal (Table 7.14). Baseline parameters were measured August 2000 and included with the Third Quarter 2000 data submittal. Baseline parameters were to have been determined in August 2005 (for renewal due November 02, 2005), but they were missed and the Division issued NOV N06-46-1-1 to the Permittee on February 3, 2006. To abate the NOV, baseline analyses were done on samples collected in August 2006.

5. Based on your review, what further actions, if any, do you recommend?

None.

6. Does the Mine Operator need to submit more information to fulfill this quarter's monitoring requirements?

YES ☐ NO ☒

7. Follow-up from last quarter, if necessary.

None.

8. Did the Mine Operator submit all the missing and/or irregular data (datum)?

Baseline parameters are being measured at several new sites, for monitoring the Mohrland Expansion area. All baseline parameters for these sites were submitted.